

FIGURE 1

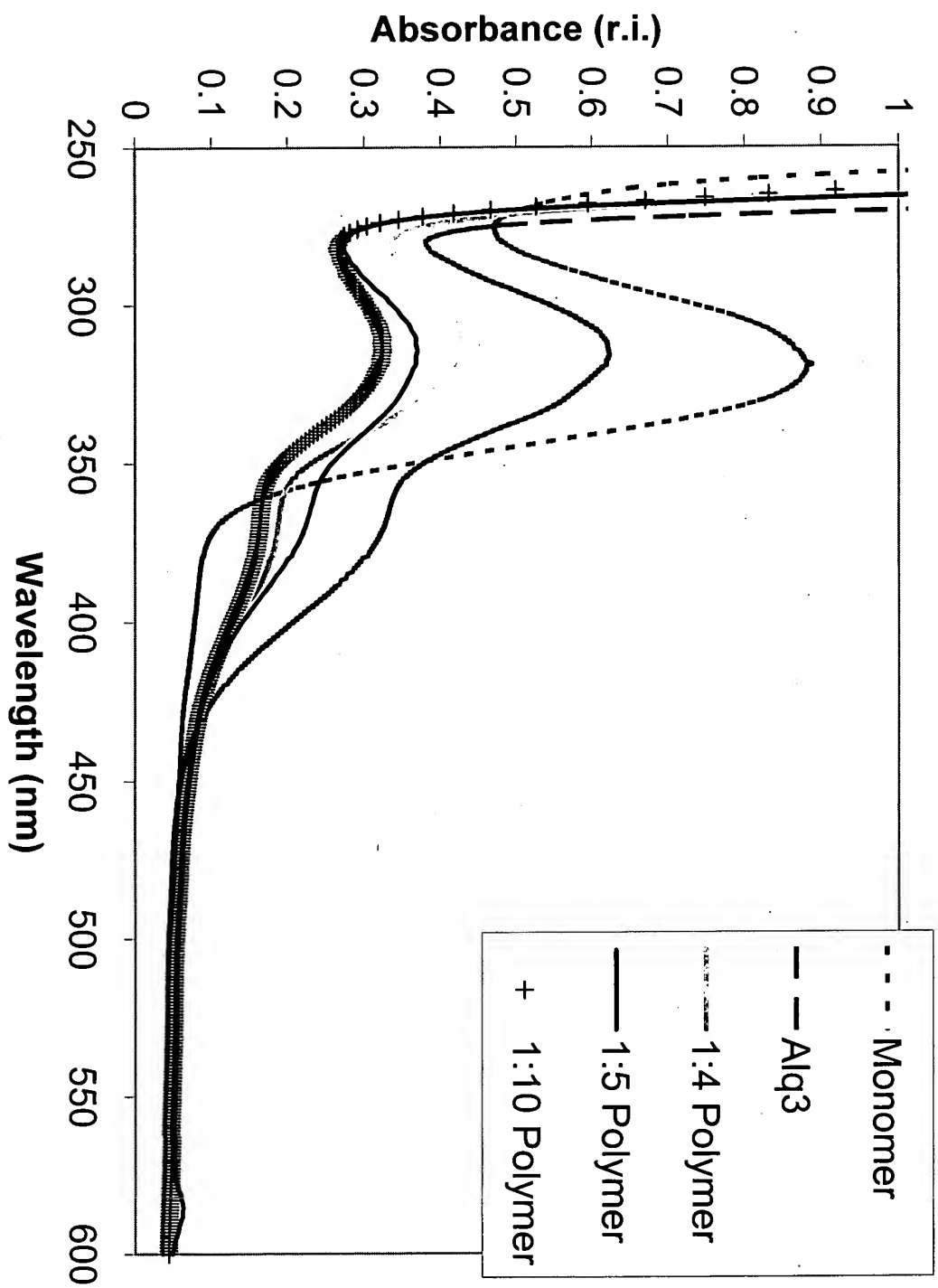


FIGURE 2

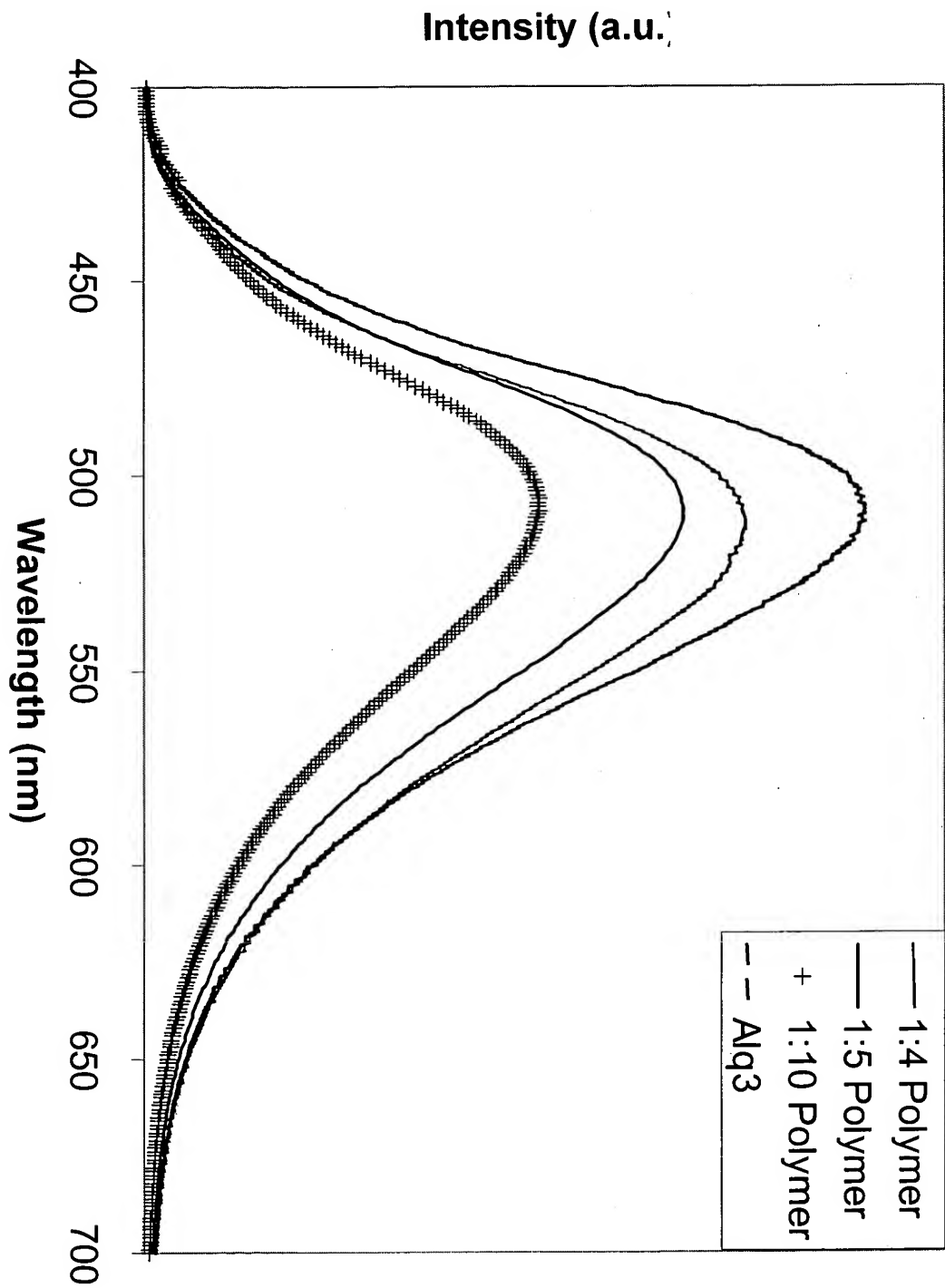


FIGURE 3

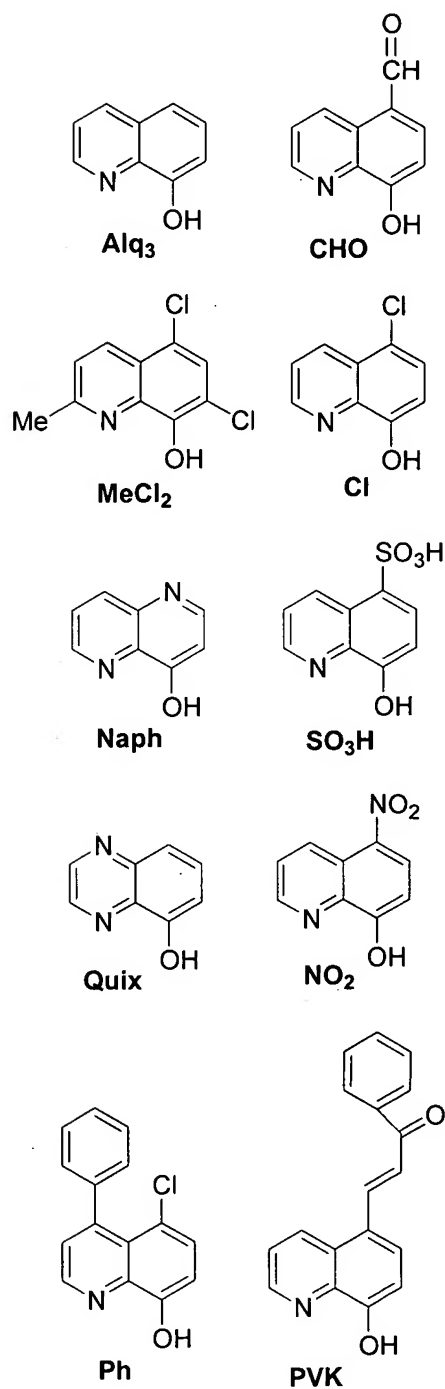


FIGURE 4

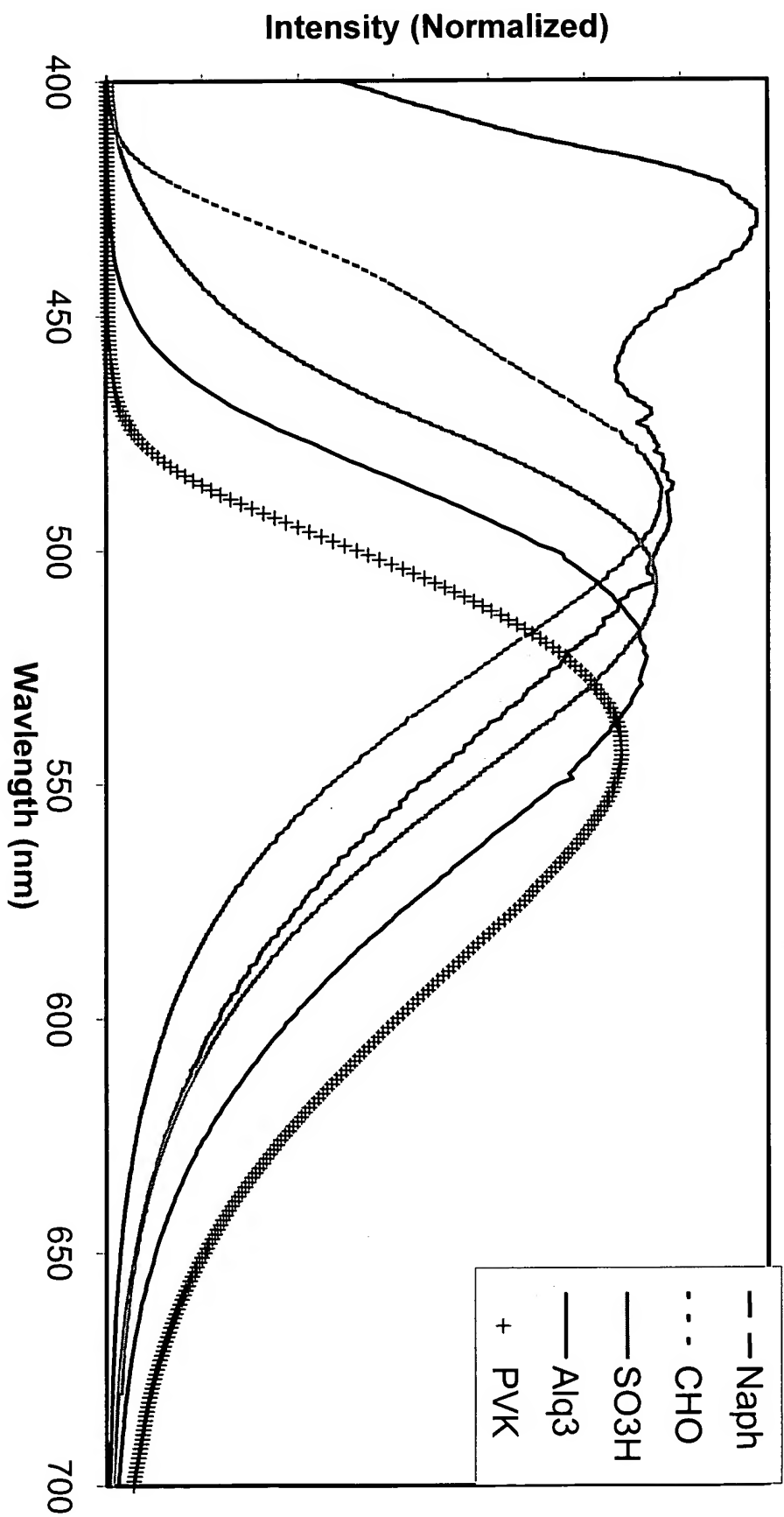


FIGURE 5

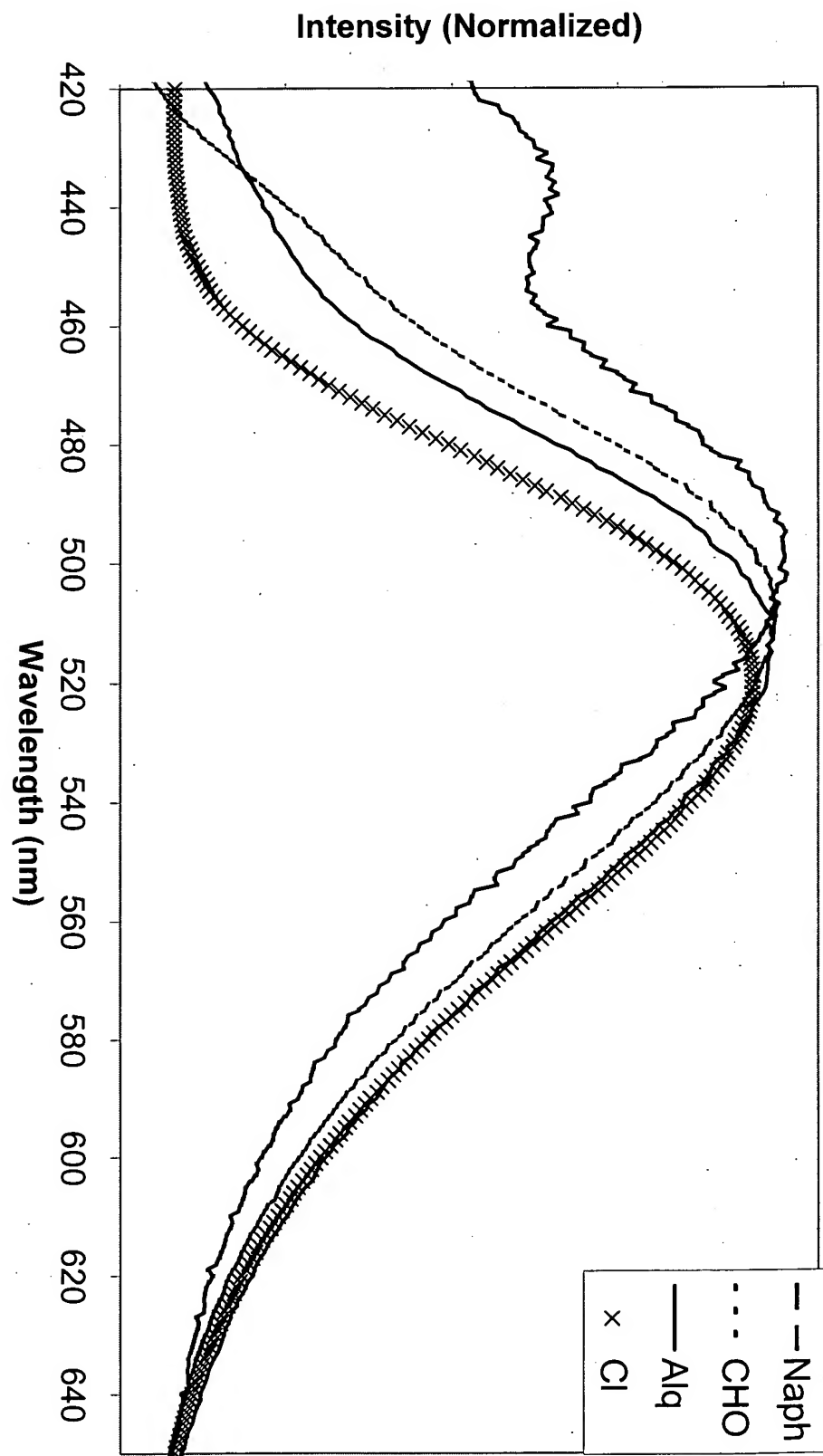


FIGURE 6

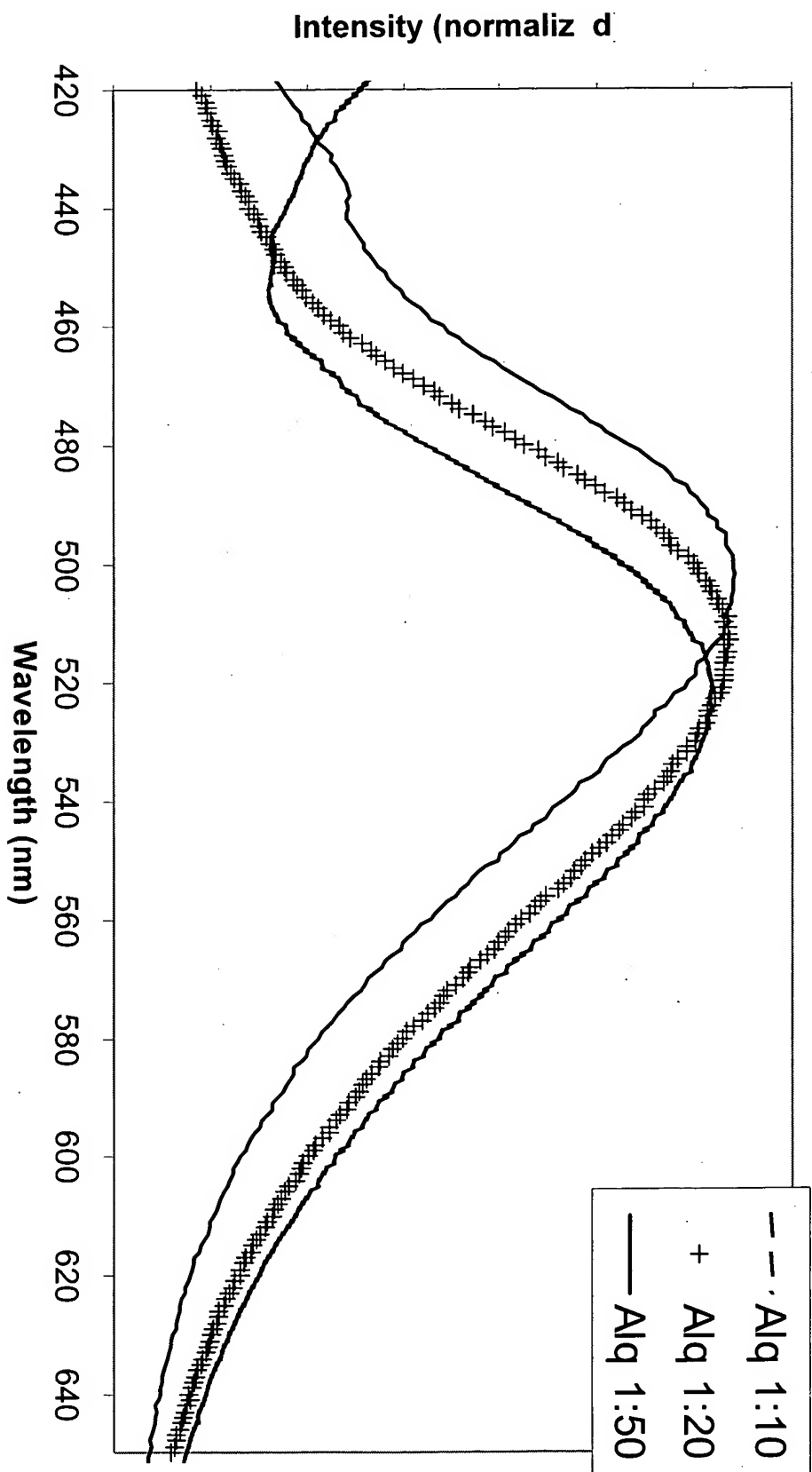


FIGURE 7

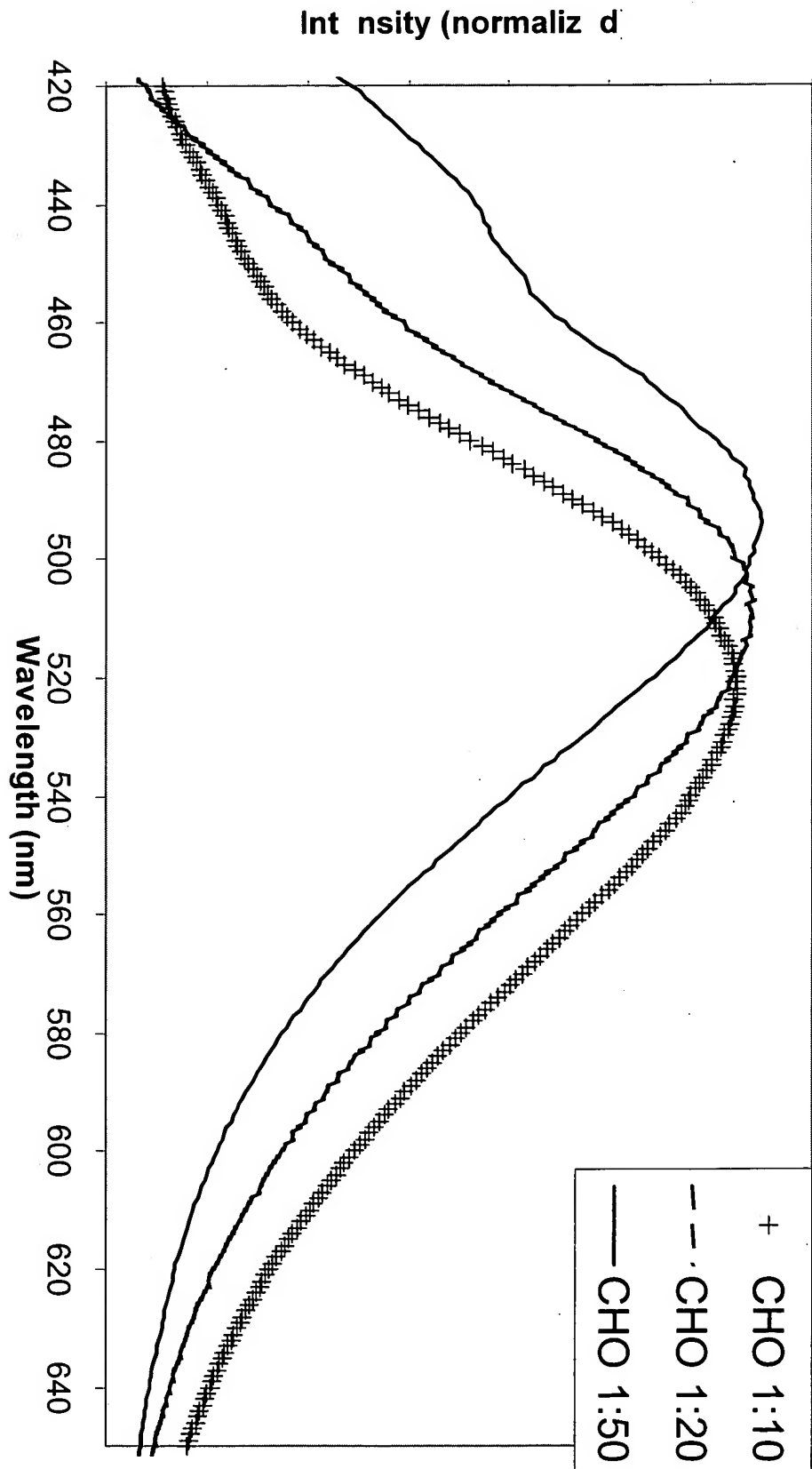


FIGURE 8

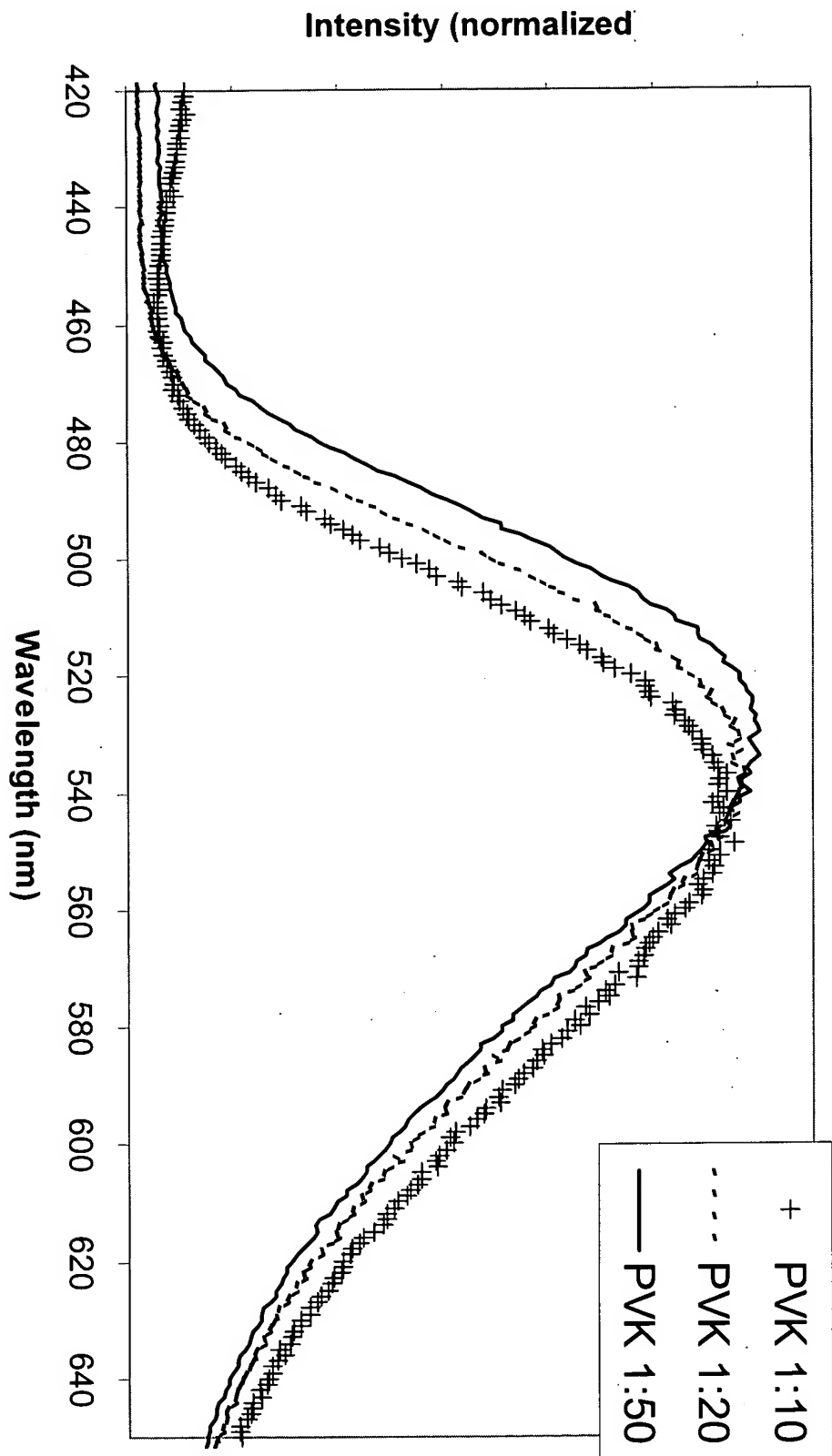
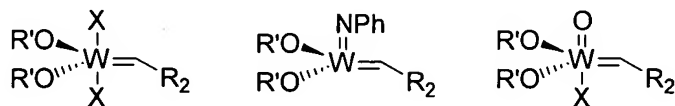


FIGURE 9

**Tungsten-Based Initiators**

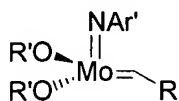


X = Cl, Br, I

R = n-Bu, sec-Bu, t-Bu, Ph, Et, i-Pr

R' = CH<sub>2</sub>-t-Bu, 2,6-i-Pr<sub>2</sub>-C<sub>6</sub>H<sub>3</sub>, CMe(CF<sub>3</sub>)<sub>2</sub>,

**Molybdenum-Based Initiators**

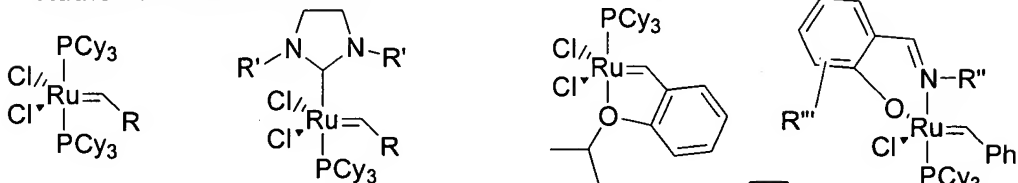


Ar' = phenyl, 2,6-Me<sub>2</sub>-C<sub>6</sub>H<sub>3</sub>, 2,6-i-Pr<sub>2</sub>-C<sub>6</sub>H<sub>3</sub>

R = Et, Ph, CH<sub>3</sub>Si, CMe<sub>2</sub>Ph, t-Bu, CMe<sub>3</sub>

R' = CMe<sub>3</sub>, CMe<sub>2</sub>-CF<sub>3</sub>, CMe(CF<sub>3</sub>)<sub>2</sub>, C(CF<sub>3</sub>)<sub>2</sub>, Ar

**Ruthenium-Based Initiator**



R = Me, Et, Ph, 4-NO<sub>2</sub>-Ph, 4-NMe<sub>2</sub>-Ph  
 4-MePh, 4-MeOPh, 4-ClPh, 4-BrPh

R' = Ms, CHCH<sub>3</sub>Ph,

R'' = 2,6-i-Pr<sub>2</sub>-C<sub>6</sub>H<sub>3</sub>, 2,6-Me<sub>2</sub>-4-MeO-C<sub>6</sub>H<sub>3</sub>, 2,6-Me<sub>2</sub>-4-Br-C<sub>6</sub>H<sub>3</sub>, 2,6-Cl<sub>2</sub>-4-CF<sub>3</sub>-C<sub>6</sub>H<sub>3</sub>

R''' = H, 4-NO<sub>2</sub>, 6-Me-4-NO<sub>3</sub>

FIGURE 10

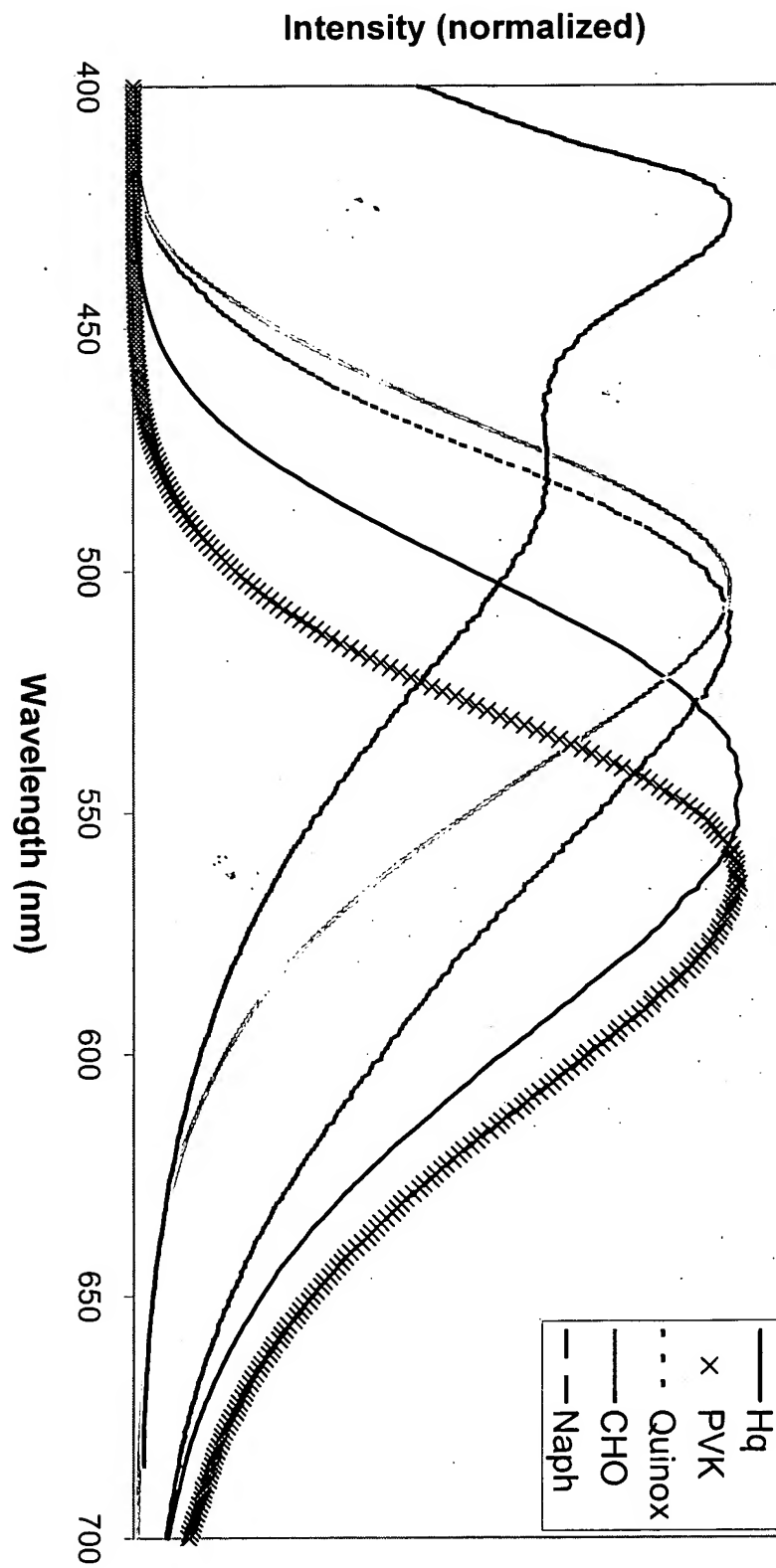


FIGURE 11

